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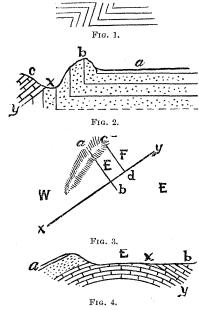
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they occur abundantly out of the vicinity of faults; 2°, that the fault-plane, wherever exposed, shows such a dip (about 45°) as it would naturally have if determined by one of the angles of the fold; 3°, that the angles of the flexure form a line of least resistance, along which displacement would certainly occur, did any force tend to produce it; 4°, that numerous indications in this region point to great superficial tension.



I think all of the above reasons will sufficiently explain themselves except the last, in illustration of which I give a very interesting section occurring in the region known as New Garden, in Bussel county

the region known as New Garden, in Russel county. In the plan, fig. 3, xy is the line of Clinch-Mountain fault, from which a short fault, cd, goes off at right angles, on one side of which, F, the coal-measures are nearly horizontal and undisturbed. On the other side the strata are pressed into a fold, as shown in the section, fig. 4, where xy is the fault-plane; E, the subcarboniferous limestone; b, the Knox limestone; and a, the coal-measures forming the crest of a lofty mountain.

There are no signs of igneous action along any of the faults, unless the evidences of ancient thermal springs along the line of Walkers Mountain fault be so regarded. These indications are, 1°, the band of gypsum, which for many miles skirts the fault on its south-east or upthrow side, at a distance of about a half or three-fourths of a mile from the fault-line (it is the same as that mentioned by Mr. Bien in Science, April 18, but does not, as he seems to surmise, enter Burk's Garden, which is some distance away on the opposite side of the fault); 2°, the Saltville basin, the bottom of which is, by estimate, not less than two hundred feet below the bed of Holston River, the excavation of which in the limestone must be accounted for by other agencies than ordinary river-erosion; besides, its structure is such as to render it improbable that it ever formed a portion of a river-valley.

In conclusion, if there were, as assumed, an increase of tension by lateral pressure toward the surface,

disturbances of strata would begin near the surface, resulting in sharp folds of the character described, which, in turn, would determine the locality of the faults, the tendency of which would be to extend progressively downward.

G. H. SQUIER.

Trempealeau, Wis., May 10.

Assumptions of museum-keepers.

In Mr. Goode's interesting summary of 'The exploring voyage of the Challenger,' I notice a paragraph that merits attention. Recalling the fact that the deep-sea fishes have been in Dr. Günther's hands 'now eight years,' and lamenting the delay in publishing the results, he very justly says, that "the preliminary descriptions published in 1878 are so meagre as to be nearly useless to any one except their author," and immediately adds, that "the type specimens themselves will, of course, be inaccessible for comparison until the final report is in type" (Science, iii. p. 580). Had it not been for private information with which I had been favored, I might have supposed that the concluding paragraph was an example of what has been called 'heterophemy,' and that my excellent friend had intended to say that the type specimens themselves will, of course, be accessible for comparison. It was, however, with the greatest astonishment that I learned, some months ago, that access had been denied to the collection in question by Dr. Günther, and that, for instance, an eminent and accomplished European ichthyologist, on a visit to England, had been refused the right of examination. I say advisably right rather than privilege; for I had always believed that the British museum was a public institution, supported by liberal grants from the nation, and created to facilitate and promote scientific investigation, and not intended for personal aggrandizement, or to uphold any officer in petty spite. On what possible ground can Dr. Günther withhold the opportunity for examination of any specimens in his keepership to any competent naturalist? It may be conceded, causa argumenti, that he has a right to name any specimens, and, at any rate, the matter is of too small moment to question at present; but I do not know on what principle he can withhold a sight of any specimen for a day even. A naturalist has, doubtless, a right to keep his own collection, bought with his own money, secluded, and to deny the privilege of examining a specimen to any one, although I have more than once heard such a procedure designated by the forcible and expressive, even if inelegant, word, 'hoggish;' but such action is worse than illiberal, and becomes criminal, in the case of a public officer. It is criminal because it is a breach of trust; for the custodian is a keeper, employed and paid by the government to care for the collections amassed for the people. Denial of the opportunity to examine such collections, under proper restrictions, may also, as intimated by Mr. Goode, result in the direct retardation or suppression of scientific activity. If Mr. Goode and my private information are correct in fact, the policy of the British museum, as interpreted by at least one of its officers, is petty, selfish, hindering to science, and subversive of public trust, or the officer exercising such powers is criminal in monstrous usurpation of delegated authority. In any event, a protest is called for; and I, for one, do make protest against such and all similar restrictions. While constant clamor is made, in the nominal interest of 'science,' for appropriations to advance scientific investigation, we may at least demand that the trustees for handling such appropriations shall not become barnacles to prevent its healthy progress. THEO. GILL.

Washington, May 10.